



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IX

215 Fremont Street  
San Francisco, Ca. 94105

AR0046

CERTIFIED MAIL NO. P000399110  
RETURN RECEIPT REQUESTED

26 FEB 1986

IN REPLY T-4-1  
REFER TO: San Gabriel

Mr. Joseph Hsu  
City of Azusa  
Post Office Box WWU  
Azusa, CA 91702

Dear Mr. Hsu:

On March 7, and April 16, 1985, the Environmental Protection Agency's (EPA) contractor, CH<sub>2</sub>M Hill, obtained water samples from your well(s).

The enclosed charts summarize the results of the analyses of the water samples that were taken from your well(s). You will find the results organized as follows. The "Analyses Performed" chart identifies the chemicals for which the water samples were analyzed, and also whether or not duplicates were taken. Volatiles, semivolatiles, and pesticides are not individual chemicals; they are different groups of chemicals that are commonly tested for by the same analytical procedure. A listing of the chemicals in each group is also enclosed.

The "Analytical Results" sheet summarizes the results of the water analyses. Specific contaminants that were detected are listed along with the concentration [in micrograms/liter (ug/l) or parts per billion (ppb)] of the contaminant found in the samples. If nothing was detected, you will find that indicated. I have also enclosed, for your information, a table which lists California State Department of Health Services' (DOHS) action levels and EPA's proposed maximum contaminant levels (drinking water quality standards) for several contaminants that have been frequently detected in ground water in the San Gabriel Valley. This table provides information as to what concentration levels of contaminants regulatory agencies consider acceptable for water that is to be used for drinking purposes. [Note: If you have any questions concerning DOHS action levels, please contact the DOHS Sanitary Engineering Branch offices in Los Angeles at (213) 620-2980.]

You may note on the "Analyses Performed" chart that sample(s) from your well(s) were analyzed for perchlorate ion (ClO<sub>4</sub><sup>-</sup>). This analysis was included in the SSP as part of EPA's source sampling program to identify potential sources of ground water contamination in the San Gabriel Valley. We are not reporting any results from the perchlorate analyses due to two serious


problems that have been identified with the analytical procedure used. First, the laboratory reported contamination in five of the six field blanks (samples containing "clean" water that are submitted along with environmental samples without the knowledge of the laboratory personnel performing the analyses) that were submitted for analysis along with the well water samples. We have been unable to identify the source of this contamination. Second, when the laboratory provided EPA with a description of the analytical method, it was stated that the presence of nitrates at levels above one part per million (ppm) can cause a false positive to be reported (i.e., the analytical method will indicate perchlorate contamination when, in fact, no perchlorate ion is present in the sample). Due to the fact that contamination of ground water by nitrates has been reported in a large area of the San Gabriel Valley and that analysis for nitrates was not conducted along with the perchlorate analyses, the validity of any positive results from the perchlorate analyses is questioned. Based on a review of the two problems identified, EPA has determined that the results of the perchlorate analyses cannot be considered valid.

EPA is presently trying to identify a modification to the method used during the SSP or a new analytical method for perchlorate analysis. If our search for a reliable method of analysis for perchlorate ion is successful, EPA will request permission to resample your well(s) in the future.

Please be advised that the results being provided to you at this time will be summarized in EPA's Supplemental Sampling Program Report, which will be released to the public in approximately 3-5 weeks. EPA will provide you with a copy of the SSP Report when it is made available to the public. You are encouraged to submit to EPA any comments you may have concerning the SSP report.

If you have any questions concerning the results of these analyses, or of EPA's sampling program in the San Gabriel Valley, please contact me at (415) 974-7520. Thank you for your cooperation during EPA's sampling program.

Sincerely yours,



Neil L. Ziemba  
San Gabriel Valley Project Manager

Enclosures

ANALYSES PERFORMED

Λ: indicates which analyses were performed.  
XX: indicates duplicate analyses.

CITY of Azusa	date sampled	volatiles*	semivolatiles*	freon-113	xylidene	thiourea	selenium hydrazine perchlorate	pesticides*
Well:								
4 (1902536)	4/16/85	X	X	X	X	X	X	
5 (1902537)	3/7/85	X	X	X	X		X	

\*If this analysis was performed for any of the sample(s) from your well(s), the attached sheets include a list of the chemicals in this category.

**ANALYTICAL RESULTS**      Units: all units are ug/L (ppb).

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